

Palnbit 2

10	20	30	40	50
ACAAA CAGGA AGGAC AGCAG GCTCT GGCAG CCAGA AGCCT GTGGC CCCAA				
TGTTT GTCCT TCCTG TCGTC CGAGA CCGTC GGTCT TCGGA CACCG GGGTT				
60	70	80	90	100
				*
GCTGG CAGGA TGGCC CCCTT CCTGC AGGTC CCCCA CAGCC TTCTG GGTTT				
CGACC GTCCT ACCGG GGGAA GGACG TCCAG GGGGT GTCGG AAGAC CCAAG				
110	120	130	140	150
CTGAC ACGAG AGAAG AGGTG GGGCG GGGTG AAGTG AACTC TGAAG CCAAA				
GACTG TGCTC TCTTC TCCAC CCCGC CCCAC TTCAC TTGAG ACTTC GGTTT				
160	170	180	190	200
				*
ATGTG ACTCT CCTGG GGTCA CCAGC TTGGG GAGAG GTGAA GAAAG ATGCC				
TACAC TGAGA GGACC CCAGT GGTCG AACCC CTCTC CACTT CTTTC TACGG				
210	220	230	240	250
GGGGC GGAAA CAAAG GGGCA GATAT CACTA TGGTT ATCTT ACTAA GCACA				
CCCCG CCTTT GTTTC CCCGT CTATA GTGAT ACCAA TAGAA TGATT CGTGT				
1082				
260	270	280	290	300
				*
GAGTA ACTGA AAAAG CAAGG GTACC GCTGC CCACC TCGTG CCCAC CTTAC				
CTCAT TGACT TTTTC GTTCC CATGG CGACG GGTGG AGCAC GGGTG GAATG				
310	320	330	340	350
GTTAT ACCTC AAACC AGCTA GATAG TTTCT GATGG CACCC ATACC CTCCC				
CAATA TGGAG TTTGG TCGAT CTATC AAAGA CTACC GTGGG TATGG GAGGG				
360	370	380	390	400
				*
TTCCC CTTTA GGCAT TGCGC AAGCT CTCCA CCACA ATCTG GAAGT TATAC				
AAGGG GAAAT CCGTA ACGCG TTCGA GAGGT GGTGT TAGAC CTTCA ATATG				
410	420	430	440	450
CCTGC GAGGG GATGG GCAGG GCACT TCTGA GGTGC CAATC AGCCT GCACT				
GGACG CTCCC CTACC CGTCC CGTGA AGACT CCACG GTTAG TCGGA CGTGA				
460	470	480	490	500
CGCCT CTGCC CTGGC CATGG CACTG CTGTC AGTTT CTTGG TACCT GTCTC				
GCGGA GACGG GACCG GTACC GTGAC GACAG TCAAA GAACC ATGGA CAGAG				
4393A 510	520	530	540	550
AACAG CAGCC TTGTC ACGTG AGACT ATGGC TGGCG GTGGG GGTGG GGGCA				
TTGTC GTCGG AACAG TGCAC TCTGA TACCG ACCGC CACCC CCACC CCCGT				
560	570	580	590	600
				*
GGAAT CCTAG AAGCA CAGGA GTGAC ATAGG GTCGG GTCGG GCAGA GCGAA				
CCTTA GGATC TTCGT GTCCT CACTG TATCC CAGCC CAGCC CGTCT CGCTT				
672 610	620	630	640	650
GTGTA GGAGG TGATC QCCAA AGGGA TGCTG GGGAC GATCT GGCCA ACACT				
CACAT CCTCC ACTAG GGGTT TCCCT ACGAC CCCTG CTAGA CCGGT TGTGA				
660	670	680	690	700
				*
GTCCT CCCAT TCAAA ACTCT CAGTC TGGAG CTCTG GGACA TGGAC AAGCC				
CAGGA GGGTA AGTTT TGAGG GTCAG ACCTC GAGAC CCTGT ACCTG TTCGG				

Trans
init

C.DNA 6

710 720 730 740 750
 AGGCC TGCTA TTCTC CATA CAGGC TCCAT AGTGT CTGGC TCAGC AGAGT
 TCCGG ACGAT AAGAG GTATG TCCCG AGGTA TCACA GACCG AGTCG TCTCA
 760 770 780 790 800
 GGGGG ATCTG GTGGG GATGG AGGAA GCTTA GCTAA AAGCT TTGTA TAGGC
 CCCCC TAGAC CACCC CTACC TCCTT CGAAT CGATT TTCGA AACAT ATCCG
 810 820 830 840 850
 TGAAG CTCTG AGTGA CCCTG CTGGG CCACC CTACC CTGGT CTGGG CTGGG
 ACTTC GAGAC TCACT GGGAC GACCC GGTGG GATGG GACCA GACCC GACCC
 860 870 880 890 900
 TCATT GCATC CCCAG ATTGG AAGGC TTGGT GAGAT GGAGA GGAAC CTTGG
 AGTAA CGTAG GGGTC TAACC TTCCG AACCA CTCTA CCTCT CCTTG GAACC
 910 920 930 940 950
 CTACA AGCTA TAGCT TTGCC CACCA GAGCC TGCTG GAGGG GAATC AAACA
 GATGT TCGAT ATCGA AACGG GTGGT CTCGG ACGAC CTCCC CTTAG TTTGT
 960 970 980 990 1000
 AGCCT GGACC TGAGG CTGGG ACTAG CTTTC CTGTT TCTGG AGTGG ATGCC
 TCGGA CTGG ACTCC GACCC TGATC GAAAG GACAA AGACC TCACC TACGG
 1010 1020 1030 1040 1050
 AACCC CCTGC CCACC AGCCT GCCTG TCCAC GCCAG GGACA CACAG ACTCC
 TTGGG GGACG GGTGG TCGGA CGGAC AGGTG CGGTC CCTGT GTGTC TGAGG
 1060 1070 1080 1090 1100
 TTTCC TTTCC AGACT GGAAA GCCCC CTCCT GGGAG AGCAG GAAGG AAGCA
 AAGGG AAAGG TCTGA CCTTT CGGGG GAGGA CCCTC TCGTC CTTCC TTCGT
 1110 1120 1130 1140 1150
 ACCTG CAACT CTTCC AGCCC TGGAC CTTGG GCTGA ACCTA CAGTT CAAGG
 TGGAC GTTGA GAAGG TCGGG ACCTG GAACC CGACT TGGAT GTCAA GTTCC
 1160 1170 1180 1190 1200
 TTTGT ATGCT CACAG GTCTT GGCAG GGAAA GATAA GAATC CCCAG GGCAC
 AAACA TACGA GTGTC CAGAA CCGTC CCTTT CTATT CTTAG GGGTC CCGTG
 1210 1220 1230 1240 1250
 CCTCC CCCCC GCCCC CCAGT CCACT GCAGG TAGCT CCTGG GTCTG CCCTT
 GGAGG GGGGG CGGGG GGTCA GGTGA CGTCC ATCGA GGACC CAGAC GGGAA
 1260 1270 1280 1290 1300
 CAGGG CAAGT GCTGA CGCTC CATCA GACTG TGATG GGGCC CTTTT CTGAG
 GTCCC GTTCA CGACT GCGAG GTAGT CTGAC ACTAC CCCGG GAAAA GACTC
 1310 1320 1330 1340 1350
 GATGA CAATT CTGAG AACAA GGCAT TTTTT TAGAG GTGGC AGAAC AGCAT
 CTACT GTTAA GACTC TTGTT CCGTA AAAAG ATCTC CACCG TCTTG TCGTA
 1360 1370 1380 1390 1400
 TTTGT GATGC CCGAG GATCT GGGAG CACAG GTCCA GCTTA ATGAG GGATT
 AAACA CTACG GGCTC CTAGA CCTTC GTGTC CAGGT CGAAT TACTC CCTAA

1410 1420 1430 1440 1450
 GGAGG AAGTG GGTAT CATCA TTACA GGGAG GGGCC TCTGT GGCCT CCTGG
 CCTCC TTCAC CCATA GTAGT AATGT CCCTC CCCGG AGACA CCGGA GGACC
 1460 1470 1480 1490 1500
 *
 GAAAA TGCAG TTGCT CTCTT TGGGT GGCCT GGGGT TGTGT GGTGG GCAGA
 CTTT ACGTC AACGA GAGAA ACCCA CCGGA CCCC ACACA CCACC CGTCT
 1510 1520 1530 1540 1550
 GGACG GAGGT GCTCA TTGGG GGAAG GGATC ACTTC TGCTC AGAGT GCTCG
 CCTGC CTCCA CGAGT AACCC CCTTC CCTAG TGAAG ACGAG TCTCA CGAGC
 1560 1570 1580 1590 1600
 *
 CAAGG GCCTT TCCTT TTCCT GAAGG CAAGC AGGCC TCCTC CTCCT CCTCT
 GTTCC CGGAA AGGAA AAGGA CTTCC GTTCG TCCGG AGGAG GAGGA GGAGA
 1610 1620 1630 1640 1650
 TCCTC CTTCT CCTCT TCCTC CTCTT TCTCC ATATG CTAG CTGGT CATT
 AGGAG GAAGA GGAGA AGGAG GAGAA AGAGG TATAC GGATC GACCA GTAAA
 1660 1670 1680 1690 1700
 *
CTAGG GACCA GCATG GTTGG GAAGG GGGCC TTGTC TTGGC CTTCC TCTTG
GATCC CTGGT CGTAC CAACC CTTCC CCCGG AACAG AACC GAAGG AGAAC
 1710 1720 1730 1740 1750
TCTCA ATTCC CTCTT TGAGC AGAAG ACGGG GTGGG TGGGG TAGGA TTGGA
 AGAGT TAAGG GAGAA ACTCG TCTTC TGCCC CACCC ACCCC ATCCT AACCT
 1760 1770 1780 1790 1800
 *
 TAGTG GTTGA TGCCA AAGAT TGAAG GGGTA GGGCG GGGCA GAAGT GGGAA
 ATCAC CAACT ACGGT TTCTA ACTTC CCCAT CCCGC CCCGT CTTCA CCCTT
 1810 1820 1830 1840 1850
 GGTCC CTGGC TTCCT CACCT TGGTA GATGG TGAGG AGCCC CAGAG GTTGA
 CCAGG GACCG AAGGA GTGGA ACCAT CTACC ACTCC TCGGG GTCTC CAACT
 1860 1870 1880 1890 1900
 *
 GCTGA GCAGC AGCTG TGATT TCAGG GTGCC TCTGT TGGAG AGGCT GCTGT
 CGACT CGTCG TCGAC ACTAA AGTCC CACGG AGACA ACCTC TCCGA CGACA
 1910 1920 1930 1940 1950
 GATTT GAAAA TCTTC TTTCC TTGGT GACAA TTCCA GAAGG CTCCA GATGA
 CTAAA CTTTT AGAAG AAAGG AACCA CTGTT AAGGT CTTCC GAGGT CTACT
 1960 1970 1980 1990 2000
 *
 ATTGT ATTGG TGAGT GCCTG GCCCT TAAGC AGTCC CAGCT GGGGA TGATG
 TAACA TAACC ACTCA CGGAC CGGGA ATTCTG TCAGG GTCGA CCCCT ACTAC
 2010 2020 2030 2040 2050
 GGGAT TTATG GGTGT CCCTG AGCCT AGGGT GACAG GGCCT CTCCT TTTTT
 CCTA AATAC CCACA GGGAC TCGGA TCCCA CTGTC CCGGA GAGGA AAAAA
 2060 2070 2080 2090 2100
 *
 TTTTA TTCTG CTTCA GGGTA CCACC CCACC AGGAG GCTGC GGGCC TGGGG
 AAAAT AAGAC GAAGT CCAT GGTGG GGTGG TCCTC CGACG CCCGG ACCCC

alt A16
L7
Fco R2

2110 2120 2130 2140 2150
 CGGEC TAGCT GGAGG AGCAA CATTG ~~ATGCT~~ AATTT GGTTC TTCTG GCTGT
 GCGGG ATCGA CCTCC TCGTT GTAAG TACCA TTAAA CCAAA AAGAC CGACA

2160 2170 2180 2190 2200
 *
 GGGGA TCAGC TCCTG GAAGT GCCCC TGTGC CTCAG TCCAC ACTCA CCATC
 CCCCT AGTCG AGGAC CTTCA CGGGG ACACG GAGTC AGGTG TGAGT GGTAG

2210 2220 2230 2240 2250
 CTTAT CTGGC ACTGG CCTTT CACCA ACCGG CCGCC AGAGC TACCT GGTGA
 GAATA GACCG TGACC GGAAA GTGGT TGGCC GCGCG TCTCG ATGGA CCACT

2260 2270 2280 2290 2300
 *
 CACCT GCACT CGCTA TGGCA TGGCC AGCTG CCGTC TGAGT GCTAA CCGGA
 GTGGA CGTGA GCGAT ACCGT ACCGG TCGAC GGCAG ACTCA CGATT GGCCT

2310 2320 2330 2340 2350
 GCCTG CTAGC CAGTG CTGAT GCTGT GGTCT TCCAG CACCG TGAGC TGCAA
 CCGAC GATCG GTCAC GACTA CGACA CCAGA AGGTG GTGGC ACTCG ACGTT

2360 2370 2380 2390 2400
 *
 ACCCG GCAAT CTCTC CTACC CCTGG ACCAG AGGCC ACACG GACAG CCTTG
 TGGGC CGTTA GAGAG GATGG GGACC TGGTC TCCGG TGTGC CTGTC GGAAC

2410 2420 2430 2440 2450
 GGTCT GGGCC TCCAT GGAAT CGCCC AGTAA TACCC ATGGT CTCCA TCGCT
 CCAGA CCCGG AGGTA CCTTA GCGGG TCATT ATGGG TACCA GAGGT AGCGA

2460 2470 2480 2490 2500
 *
 TCCGG GGCAT CTTCA ACTGG GTGCT GAGCT ATCGG CGTGA TTCAG ATATC
 AGGCC CCGTA GAAGT TGACC CACGA CTCGA TAGCC GCACT AAGTC TATAG

2510 2520 2530 2540 2550
 TTTGT ACCCT ACGGT CGCTT GGAGC CTCTC TCTGG GCCCA CATCC CCACT
 AAACA TGGGA TGCCA GCGAA CCTCG GAGAG AGACC CGGGT GTAGG GGTGA

2560 2570 2580 2590 2600
 *
 ACCGG CCAAA AGCAG GATGG CTGCC TGGGT GATCA GCAAT TTCCA GGAGC
 TGGCC GGTTC TCGTC CTACC GACGG ACCCA CTAGT CGTTA AAGGT CCTCG

2610 2620 2630 2640 2650
 GGCAG CAGCG TGCAA AGCTG TACCG GCAGC TGGCC CCTCA TCTGC AGGTG
 CCGTC GTCGC ACGTT TCGAC ATGGC CGTCG ACCGG GGAGT AGACG TCAC

2660 2670 2680 2690 2700
 *
 GATGT GTTCG GTCGC GCCAG CGGAC GGCCC CTATG CGCTA ATTGT CTGCT
 CTACA CAAGC CAGCG CGGTC GCCTG CCGGG GATAC GCGAT TAACA GACGA

2710 2720 2730 2740 2750
 GCCCA CTTTG GCGCG GTACC GCTTC TACCT GGCCT TTGAG AACTC ACACG
 CGGGT GAAAC CGGGC CATGG CGAAG ATGGA CCGGA AACTC TTGAG TGTCG

2760 2770 2780 2790 2800
 *
 ATCGG GACTA CATCA CTGAG AAGTT CTGGC GCAAT GCCCT GGCGG CTGGT
 TAGCC CTGAT GTAGT GACTC TTCAA GACCG CGTTA CCGGA CCGCG GACCA

2810 2820 2830 2840 2850
 GCTGT ACCCG TGGCG CTGGG ACCTC CTCGG GCCAC CTACG AGGCT TTTGT
 CGACA TGGGC ACCGC GACCC TGGAG GAGCC CGGTG GATGC TCCGA AAACA

2860 2870 2880 2890 2900
 GCCAC CAGAT GCCTT TGTAC ACGTG GACGA CTTCA GCTCT GCCCG TGAAC
 CGGTG GTCTA CGGAA ACATG TGCAC CTGCT GAAGT CGAGA CGGGC ACTTG

8848 2910 2920 2930 2940 2950
 TGGCT GTCTT CCTCG TACGC ATGAA TGAGA GTCGT TATCG TGGCT TCTTT
 ACCGA CAGAA GGAGC AGTCG TACTT ACTCT CAGCA ATAGC ACGCA AGAAA

2960 2970 2980 2990 3000
 GCTTG GCGAG ACCGG CTCCG TGTGC GGCTC CTGGG TGACT GGAGG GAGCG
 CGAAC CGCTC TGGCC GAGGC ACACG CCGAG GACCC ACTGA GCTCC CTCGC

3010 3020 3030 3040 3050
 CTTCT GCACC ATCTG TGCCC GCTAC CCTTA CTTGC CCCGC AGCCA GGTCT
 GAAGA CGTGG TAGAC ACGGG CGATG GGAAT GAACG GGGCG TCGGT CCAGA

3060 3070 3080 3090 3100
 ATGAA GACCT TGAAA GCTGG TTCCA GGCTT GAACT CCTGC TGCTG GGAGA
 TACTT CTGGA ACTTT CGACC AAGGT CCGAA CTTGA GGACG ACGAC CCTCT

3110 3120 3130 3140 3150
 GGCTG GATGG GTGGG AGACT GATGT TGAAA CCAAA GAGCT GGGCA TCCAG
 CCGAC CTACC CACCC TCTGA CTACA ACTTT GGTTT CTCGA CCCGT AGGTC

3160 3170 3180 3190 3200
 GCTTT TGGTC ACCAT GGCAC TACCC CAAGG CTTTT CCTGT TCAGT GAGCA
 CGAAA ACCAG TGGTA CCGTG ATGGG GTTCC GAAAA GGACA AGTCA CTCGT

8905 3210 3220 3230 3240 3250
 GGAAT TCAGG ATATA AGGAG AAGAC TGGGC TGAGA TACCC TGGTG GGCTT
 CCTTA AGTCC TATAT TCCTC TTCTG ACCCG ACTCT ATGGG ACCAC CCGAA

3260 3270 3280 3290 3300
 TAGAG TAGGG GCCCA GGATA AGAGA CAATG AATTA ATGAG GAGCA TATGG
 ATCTC ATCCC CGGGT CCTAT TCTCT GTTAC TTAAT TACTC CTCGT ATACC

3310 3320 3330 3340 3350
 GGAAG GTGGC TGAGG GTCCC TGAAT TACCT TGACC CATGG CTGAA GGCTC
 CCTTC CACCG ACTCC CAGGG ACTGA ATGGA ACTGG GTACC GACTT CCGAG

3360 3370 3380 3390 3400
 CATGC CCATG GCTGG AGCTG GGACC CTACA CTTCT ATAGT CAAGG TGCTT
 GTACG GGTAC CGACC TCGAC CCTGG GATGT GAAGA TATCA GTTCC ACGAA

3410 8954 3420 3430 3440 3450
 AGCCT CAAGG TTGCA GATGC ACCCT TAGT ACTCT GGGTG CAGAC TGATC
 TCGGA GTTCC AACGT CTACG TGGGA GATCA TGAGA CCCAC GTCTG ACATG

3460 3470 3480 3490 3500
 ACTGG GCGCA GGGGG TTGTG GAAGG ACAGT GCAGA TGATT CTGGG CTTTT
 TGACC CGCGT CCCCC AACAC CTTCC TGTCA CGTCT ACTAA GACCC GAAAA

Eco97 III

S82C

STOP

Eco2L

8967

3510 3520 3530 3540 3550
GACAC CACAG TTCCC CCAGG GAAAG AGGCA CTACT AATAA AAACA CTGAC
CTGTG GTGTC AAGGG GGTCC CTTTC TCCGT GATGA TTATT TTTGT GACTG

3560 3570 3580 3590
AGAAA TCTCC TGGTC AAGTC TGTTA GGCAG CAGAG CTCGA ATTC
TCCTT AGAGG ACCAG TTCAG ACAAT CCGTC GTCTC GAGCT TAAG

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cDNA